

SEQUENCE LISTING

<110> Uebele, Victor N.
Swanson, Richard J.
Liu, Yuan
Lagrutta, Armando

<120> NOVEL HUMAN CALCIUM SENSITIVE POTASSIUM
CHANNEL

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<140> 10/031,691

<141> 2002-01-22

<150> PCT/US00/19585

<151> 2000-07-18

<150> 60/144,764

<151> 1999-07-20

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<213> Human

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<212> PRT

<213> Homo Sapiens

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<213> Homo Sapiens
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 Ser Ser Thr Gly Glu Asp Arg Ala Val Met Leu Gly Phe Ala Met Met
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 Gly Phe Ser Val Leu Met Phe Phe Leu Leu Gly Thr Thr Ile Leu Lys
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 Pro Phe Met Leu Ser Ile Gln Arg Glu Glu Ser Thr Cys Thr Ala Ile
 85 90 95
 His Thr Asp Ile Met Asp Asp Trp Leu Asp Cys Ala Phe Thr Cys Gly
 100 105 110
 Val His Cys His Gly Gln Gly Lys Tyr Pro Cys Leu Gln Val Phe Val
 115 120 125
 Asn Leu Ser His Pro Gly Gln Lys Ala Leu Leu His Tyr Asn Glu Glu
 130 135 140
 Ala Val Gln Ile Asn Pro Lys Cys Phe Tyr Thr Pro Lys Cys His Gln
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 Asp Arg Ser Asp Leu Leu Asn Ser Ala Leu Asp Ile Lys Glu Phe Phe
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 Asp His Lys Asn Gly Thr Pro Phe Ser Cys Phe Tyr Ser Pro Ala Ser
 180 185 190
 Gln Ser Glu Asp Val Ile Leu Ile Lys Lys Tyr Asp Gln Met Ala Ile
 195 200 205
 Phe His Cys Leu Phe Trp Pro Ser Leu Thr Leu Leu Gly Gly Ala Leu
 210 215 220
 Ile Val Gly Met Val Arg Leu Thr Gln His Leu Ser Leu Leu Cys Glu
 225 230 235 240
 Lys Tyr Ser Thr Val Val Arg Asp Glu Val Gly Gly Lys Val Pro Tyr
 245 250 255
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 Arg Ala Glu Lys Ser
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Ser Ile Gln Arg Glu Glu Ser Thr Cys Thr Ala Ile His Thr Asp Ile
65 70 75 80
Met Asp Asp Trp Leu Asp Cys Ala Phe Thr Cys Gly Val His Cys His
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Gly Gln Gly Lys Tyr Pro Cys Leu Gln Val Phe Val Asn Leu Ser His
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Pro Gly Gln Lys Ala Leu Leu His Tyr Asn Glu Glu Ala Val Gln Ile
115 120 125
Asn Pro Lys Cys Phe Tyr Thr Pro Lys Cys His Gln Asp Arg Asn Asp
130 135 140
Leu Leu Asn Ser Ala Leu Asp Ile Lys Glu Phe Phe Asp His Lys Asn
145 150 155 160
Gly Thr Pro Phe Ser Cys Phe Tyr Ser Pro Ala Ser Gln Ser Glu Asp
165 170 175
Val Ile Leu Ile Lys Lys Tyr Asp Gln Met Ala Ile Phe His Cys Leu
180 185 190
Phe Trp Pro Ser Leu Thr Leu Leu Gly Gly Ala Leu Ile Val Gly Met
195 200 205
Val Arg Leu Thr Gln His Leu Ser Leu Leu Cys Glu Lys Tyr Ser Thr
210 215 220
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<210> 7
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 <213> Human

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 <212> PRT
 <213> Amino Acid

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35     40     45
Thr Gly Glu Asp Arg Ala Val Met Leu Gly Phe Ala Met Met Gly Phe
50     55     60
Ser Val Leu Met Phe Phe Leu Leu Gly Thr Thr Ile Leu Lys Pro Phe
65     70     75
Met Leu Ser Ile Gln Arg Glu Glu Ser Thr Cys Thr Ala Ile His Thr
85     90     95
Asp Ile Met Asp Asp Trp Leu Asp Cys Ala Phe Thr Cys Gly Val His
100    105    110
Cys His Gly Gln Gly Lys Tyr Pro Cys Leu Gln Val Phe Val Asn Leu
115    120    125
Ser His Pro Gly Gln Lys Ala Leu Leu His Tyr Asn Glu Glu Ala Val
130    135    140
Gln Ile Asn Pro Lys Cys Phe Tyr Thr Pro Lys Cys His Gln Asp Arg
145    150    155
Ser Asp Leu Leu Asn Ser Ala Leu Asp Ile Lys Glu Phe Phe Asp His
165    170    175
Lys Asn Gly Thr Pro Phe Ser Cys Phe Tyr Ser Pro Ala Ser Gln Ser
180    185    190
Glu Asp Val Ile Leu Ile Lys Lys Tyr Asp Gln Met Ala Ile Phe His
195    200    205
Cys Leu Phe Trp Pro Ser Leu Thr Leu Leu Gly Gly Ala Leu Ile Val
210    215    220
Gly Met Val Arg Leu Thr Gln His Leu Ser Leu Cys Glu Lys Tyr
225    230    235

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Ala	Ile	Phe	His	Cys	Leu	Phe	Trp	Pro	Ser	Leu	Thr	Leu	Leu	Gly	Gly
Ala	Leu	Ile	Val	Gly	Met	Val	Arg	Leu	Thr	Gln	His	Leu	Ser	Leu	Leu
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<210> 11
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Val	Ser	Ala	Ala	Gly	Arg	Trp	Ala	Val	Leu	Tyr	His	Thr	Glu	Asp	Thr
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Arg	Asp	Gln	Asn	Gln	Gln	Cys	Ser	Tyr	Ile	Pro	Gly	Ser	Val	Asp	Asn
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Tyr	Gln	Thr	Ala	Arg	Ala	Asp	Val	Glu	Lys	Val	Arg	Ala	Lys	Phe	Gln
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Glu	Gln	Gln	Val	Phe	Tyr	Cys	Phe	Ser	Ala	Pro	Arg	Gly	Asn	Glu	Thr
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Leu	Phe	Trp	Pro	Thr	Phe	Leu	Leu	Thr	Gly	Gly	Leu	Leu	Ile	Ile	Ala
				165					170					175	
Met	Val	Lys	Ser	Asn	Gln	Tyr	Leu	Ser	Ile	Leu	Ala	Ala	Gln	Lys	
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<210>	12
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<212>	DNA
<213>	Human

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24

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<400> 13

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